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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,782	01/23/2004	Stephen L. Morein	00100.02.0002	7942
23418	7590 03/09/2005		EXAM	INER
VEDDER PRICE KAUFMAN & KAMMHOLZ			TUNG, KEE M	
222 N. LASA				
CHICAGO, IL 60601			ART UNIT	PAPER NUMBER
			2676	
			DATE MAILED: 03/09/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/763,782	MOREIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kee M Tung	2676			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on 23 January 2004.					
	action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-23 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 1-16 and 21-23 is/are allowed.</li> <li>6)  Claim(s) 17 and 20 is/are rejected.</li> <li>7)  Claim(s) 18 and 19 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the E	xaminer.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some col None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)			

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 17 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted Prior Art, figure 1 of the drawings and their respective areas of the specification (Hereinafter after "Prior Art").

As per claims 17 and 20, Prior Art teaches an apparatus for graphics processing (Fig. 1) comprising a compiler (102) coupled to receive abstract state vector (104) having an abstract render state 106, vertex shader programs 108, vertex shader constants 110, pixel shader programs 112 and pixel shader constants 114 and the compiler (102) generates a hardware state and shader vector (100) and is provided to a hardware 116, (such as, graphics processor). It is noted that the prior art fails to mention what is the element of dot line block box which includes all elements 106-114 and generating or outputs the abstract state vector 104 as shown in the drawing. However, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to reasonably believe the dot line box must be some kind of a storage device, such as, a cache, a register, a buffer, a table, or a memory, in order to store or output to the compiler. Therefore, at least claims 17 and 20 would have been obvious.

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## Allowable Subject Matter

3. Claims 1-16 are allowed.

4. Claims 18 and 19 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject

matter:

The prior art made of record fails to anticipate or make obvious the claimed

invention. Specially, the prior art fails to teach or suggest, in combination with the

remaining steps and/or elements, a method comprising a determining steps as recited

in claims 1 and 12; and a graphics processor comprising at least one state and shader

cache and an abstract state vector register as recited in claims 18 and 20.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kee M Tung whose telephone number is 571-272-7794.

The examiner can normally be reached on Tuesday - Friday from 5:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew Bella can be reached on 571-272-7778. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kee M Tung Primary Examine

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